

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: March 29, 2003, 19:47:07 ; Search time 70.5291 Seconds
(without alignment)
7950.388 Million cell updates/sec

Title: US-09-988-971-1_COPY_694_942

Perfect score: 249

Sequence: 1 tggcgtatgaagggccgcag.....aggccctcgtgcacatrac 249

Scoring table: IDENTITY_NDC
Gapop 10.0, Gapext 1.0

Searched: 2185239 seqs, 112599159 residues 4370478

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :
1: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1980.DAT:*
2: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1981.DAT:*
3: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1982.DAT:*
4: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1983.DAT:*
5: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1984.DAT:*
6: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1985.DAT:*
7: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1986.DAT:*
8: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1987.DAT:*
9: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1988.DAT:*
10: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1989.DAT:*
11: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1990.DAT:*
12: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1991.DAT:*
13: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1992.DAT:*
14: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1993.DAT:*
15: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1994.DAT:*
16: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1995.DAT:*
17: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1996.DAT:*
18: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1997.DAT:*
19: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1998.DAT:*
20: /SID2/gcgdata/geneeq/geneeqn-emb1/NA1999.DAT:*
21: /SID2/gcgdata/geneeq/geneeqn-emb1/NA2000.DAT:*
22: /SID2/gcgdata/geneeq/geneeqn-emb1/NA2001A.DAT:*
23: /SID2/gcgdata/geneeq/geneeqn-emb1/NA2001B.DAT:*
24: /SID2/gcgdata/geneeq/geneeqn-emb1/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	249	100.0	737 24	Mouse MARS short isoform
2	249	100.0	786 24	Human modulator of
3	249	100.0	1183 24	Human CDNA encodin
4	247.4	99.4	837 21	Human ORF2757
5	242.6	97.4	2049 23	Human ORF2757
6	213.8	85.9	1348 24	DNA encoding novel
7	147	59.0	603 23	Mouse modulator of
8	103	41.4	211 23	DNA encoding novel
9	100.2	40.2	1926 24	Human CDNA differe

ALIGNMENTS

RESULT 1	10	100.2	40.2	2015	24	ABK83339	Human CDNA differe
AA144090	11	100.2	40.2	2015	24	ABL66673	Lung cancer relate
AA144090 standard; CDNA; 737 BP.	12	97	39.0	675	18	AAT63421	FKBP-LCK:SH2 fuso
AA144090;	13	97	39.0	675	20	AA15151	DNA encoding a fus
XX	14	97	39.0	2032	21	AA246491	PKA subetrate, Src
XX	15	90.8	36.5	1254	12	AA013983	Lck gene fused wit
XX	16	90.8	36.5	2320	23	AA86451	DNA encoding novel
XX	17	89	35.7	1911	24	ABK63704	Rat sequence diffe
XX	18	87.6	35.2	2254	24	ABK83348	Human CDNA differe
XX	19	87.6	35.2	2354	24	ABL68108	Ovary cancer relat
XX	20	87.6	35.2	2433	24	AA594859	Human DNA sequence
XX	21	82	32.9	2109	22	AA502049	DNA encoding molec
XX	22	80.4	32.3	2655	24	ABK83738	Human CDNA differe
XX	23	80.4	32.3	2655	24	ABL65189	Lung cancer relate
XX	24	77.8	31.2	2298	24	ABK83935	Human CDNA differe
XX	25	74.6	30.0	1511	14	AA046688	Human p60 c-src g
XX	26	74.6	30.0	1599	23	AA587965	DNA encoding novel
XX	27	74.6	30.0	1466	24	ABN59752	Novel human coding
XX	28	73	29.3	414	22	AAQ67577	Novel human polynu
XX	29	66.6	26.7	1602	14	AAQ66887	Chicken p60 c-src
XX	30	66.6	26.7	1759	21	AA229700	Wild-type chicken
XX	31	66.6	26.7	1759	22	AA283357	Nucleotide sequenc
XX	32	66.6	26.7	1821	21	ABK10778	SH2 unit-containin
XX	33	65.2	26.2	282	20	AA208794	Human src-family k
XX	34	65.2	26.2	282	22	AA514748	Src-family kinase
XX	35	65.2	26.2	1491	20	AA208792	Human src-family k
XX	36	65.2	26.2	1491	22	AA514746	Xenopus laevis src
XX	37	65.2	26.2	1491	22	AA514754	Xenopus laevis src
XX	38	65.2	26.2	1491	22	AA514755	Xenopus laevis src
XX	39	55	22.1	2293	23	ABL01921	Drosophila melanog
XX	40	55	22.1	2422	23	ABL19793	Drosophila melanog
XX	41	55	22.1	6639	23	ABL01920	Drosophila melanog
XX	42	55	22.1	33472	23	ABL19782	Drosophila melanog
XX	43	52.2	21.0	3422	23	AA584959	DNA encoding novel
XX	44	52.2	21.0	4517	20	AA490200	Human yesi encodin
XX	45	52.2	21.0	4517	22	AA428359	Nucleotide sequenc

Mouse; gene; ss; gene therapy; modulator of antigen receptor signalling;
MARS; tumor suppressor gene; Src-like adaptor protein; STAP;
myeloid malignancy; acute myelogenous leukaemia; autoimmune disorder;
immunopression; myeloproliferative disorder; breast cancer.

Mus sp.

Key Location/Qualifiers

CDS 1..633 /tag= a

FT /product= "Mouse MARS short isoform protein"

PN MO200242452-A2.

30-MAY-2002.

26-NOV-2001; 2001MO-CA01662.

27-NOV-2000; 2000CA-2324663.

(HOSP-) HOSPITAL FOR SICK CHILDREN.

PI Mcglade JC, Loreto MP;
 XX
 XX WPI: 2002-566564/60.
 DR P-PSDB; AAO15458.
 XX
 XX New isolated modulator of antigen receptor signalling protein or its
 PT fragment, useful for treating malignant disorders such as myeloid
 PT malignancies, autoimmune disorders and myeloproliferative disorders -
 XX
 RS Claim 9; Page 77; 110pp; English.
 XX
 XX The invention comprises the amino acid and coding sequences of modulator
 CC of antigen receptor signalling (MARS) proteins. The MARS protein is a
 CC putative tumour suppressor gene and exhibits structural and sequence
 CC similarity to the Scr-like adaptor protein (SLAP). The MARS DNA and
 CC protein sequences of the invention are useful for the treatment of
 CC myeloid malignancies (e.g. acute myelogenous leukaemia) autoimmune
 CC disorders, immunosuppression, myeloproliferative disorders and
 CC malignancies related to the de-regulation of tyrosine kinases (e.g.
 CC breast cancer). The present cDNA sequence encodes a mouse MARS protein.
 XX
 SQ Sequence 737 BP; 152 A; 219 C; 218 G; 148 T; 0 other;
 Query Match 100.0%; Score 249; DB 24; Length 737;
 Best Local Similarity 100.0%; Pred. No. 5.3e-61;
 Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TGCGTGTATGAGGGGCTTCCATCCGGAGAGACGAGAACTGCTGTTTACCTGGGAC 60
 DB 280 TGGCTGTATGAGGGGCTTCCATCCGGAGAGACGAGAACTGCTGTTTACCTGGGAC 339
 QY 61 CCTGAGAGGGGCTTCCATCCGGAGAGACGAGAACTGCTGTTTACCTGGGAC 120
 DB 340 CCTGAGAGGGGCTTCCATCCGGAGAGACGAGAACTGCTGTTTACCTGGGAC 399
 QY 121 GTCCGCTTACGCGGCTTCCATCCGGAGAGACGAGAACTGCTGTTTACCTGGGAC 180
 DB 400 GTCCGCTTACGCGGCTTCCATCCGGAGAGACGAGAACTGCTGTTTACCTGGGAC 459
 QY 181 GACAATGCTGCTGTACATCTACCGGCTTCCATCCGGAGAGACGAGAACTGCTGTTTACCTGGGAC 240
 DB 460 GACAATGCTGCTGTACATCTACCGGCTTCCATCCGGAGAGACGAGAACTGCTGTTTACCTGGGAC 519
 QY 241 GACCATTTAC 249
 DB 520 GACCATTTAC 528
 RESULT 2
 AAL44089
 ID AAL44089 standard; cDNA; 786 BP.
 XX
 XX AAL44089;
 AC
 XX
 DT 03-OCT-2002 (first entry)
 XX
 DE Human modulator of antigen receptor signalling protein coding sequence.
 XX
 KW Human; gene; ss; gene therapy; modulator of antigen receptor signalling;
 KW MARS; tumour suppressor gene; Scr-like adaptor protein; SLAP;
 KW myeloid malignancy; acute myelogenous leukaemia; autoimmune disorder;
 KW immunosuppression; myeloproliferative disorder; breast cancer.
 XX
 OS Homo sapiens.
 XX
 XX Key Location/Qualifiers
 FH 1..786
 FT CDS /tag= a
 FT /product= "Human MARS protein"
 FT
 XX WO200242452-A2.
 PN 30-MAY-2002.
 XX
 PD

XX
 XX 26-NOV-2001; 2001WO-CA01662.
 PF
 XX
 XX 27-NOV-2000; 2000CA-2324663.
 PR
 XX
 XX (HOSP-) HOSPITAL FOR SICK CHILDREN.
 PA
 XX
 XX Mcglade JC, Loreto MP;
 PI
 XX
 XX WPI: 2002-566564/60.
 DR P-PSDB; AAO15457.
 XX
 XX New isolated modulator of antigen receptor signalling protein or its
 PT fragment, useful for treating malignant disorders such as myeloid
 PT malignancies, autoimmune disorders and myeloproliferative disorders -
 XX
 RS Claim 12; Page 75; 110pp; English.
 XX
 XX The invention comprises the amino acid and coding sequences of modulator
 CC of antigen receptor signalling (MARS) proteins. The MARS protein is a
 CC putative tumour suppressor gene and exhibits structural and sequence
 CC similarity to the Scr-like adaptor protein (SLAP). The MARS DNA and
 CC protein sequences of the invention are useful for the treatment of
 CC myeloid malignancies (e.g. acute myelogenous leukaemia) autoimmune
 CC disorders, immunosuppression, myeloproliferative disorders and
 CC malignancies related to the de-regulation of tyrosine kinases (e.g.
 CC breast cancer). The present cDNA sequence encodes a human MARS protein.
 XX
 SQ Sequence 786 BP; 162 A; 234 C; 231 G; 159 T; 0 other;
 Query Match 100.0%; Score 249; DB 24; Length 786;
 Best Local Similarity 100.0%; Pred. No. 5.4e-61;
 Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TGCGTGTATGAGGGGCTTCCATCCGGAGAGACGAGAACTGCTGTTTACCTGGGAC 60
 DB 280 TGGCTGTATGAGGGGCTTCCATCCGGAGAGACGAGAACTGCTGTTTACCTGGGAC 339
 QY 61 CCTGAGAGGGGCTTCCATCCGGAGAGACGAGAACTGCTGTTTACCTGGGAC 120
 DB 340 CCTGAGAGGGGCTTCCATCCGGAGAGACGAGAACTGCTGTTTACCTGGGAC 399
 QY 121 GTCCGCTTACGCGGCTTCCATCCGGAGAGACGAGAACTGCTGTTTACCTGGGAC 180
 DB 400 GTCCGCTTACGCGGCTTCCATCCGGAGAGACGAGAACTGCTGTTTACCTGGGAC 459
 QY 181 GACAATGCTGCTGTACATCTACCGGCTTCCATCCGGAGAGACGAGAACTGCTGTTTACCTGGGAC 240
 DB 460 GACAATGCTGCTGTACATCTACCGGCTTCCATCCGGAGAGACGAGAACTGCTGTTTACCTGGGAC 519
 QY 241 GACCATTTAC 249
 DB 520 GACCATTTAC 528
 RESULT 3
 ABK61465
 ID ABK61465 standard; cDNA; 1183 BP.
 XX
 XX ABK61465;
 AC
 XX
 DT 18-JUN-2002 (first entry)
 XX
 DE Human cDNA encoding protein NOV13.
 XX
 XX Human; gene; ss; NOVX; gene therapy; cardiomyopathy; atherosclerosis;
 KW cell signal processing disorder; metabolic pathway modulation disorder;
 KW diabetes; cancer; adenocarcinoma; lymphoma; prostate cancer;
 KW uterus cancer; immune response; graft-versus-host disease;
 KW acquired immunodeficiency syndrome; AIDS; asthma; Crohn's disease;
 KW hypertension; congenital heart defects; multiple sclerosis; inflammation;
 KW Albright hereditary osteodystrophy.
 XX
 XX

OS Homo sapiens.
 XX MO200216599-A2.
 XX 28-FEB-2002.
 PD 27-AUG-2001; 2001MO-US26510.
 XX 25-AUG-2000; 2000US-228191P.
 PR 08-FEB-2001; 2001US-267300P.
 PR 20-FEB-2001; 2001US-26961P.
 PR 20-MAR-2001; 2001US-277337P.
 XX (CURA-) CURAGEN CORP.
 PA (COR-) COR THERAPEUTICS INC.
 XX
 XX Burgess CE, Conley PE, Grose WM, Hart M, Kekuda R, Shinkens RA;
 PI Spytek KA, Szekeres BS, Tomlinson JE, Topper JM, Yang R;
 XX WPI; 2002-280937/32.
 DR P-PSDB; AAU91308.
 XX
 XX New polypeptides for treating or preventing a disorder associated with
 PT them, in humans, e.g. cardiomyopathy, atherosclerosis or cancers -
 XX
 XX Claim 1; Page 98; 263pp; English.
 XX
 XX The invention relates to an isolated polypeptide (NOVX) a mature
 CC form of NOVX, a NOVX variant (differing by no more than 15%), the
 CC nucleotide encoding NOVX (or its complement, fragment or variant).
 CC NOVX is NOV1-14, 15a, 15b, 16a, and 16b. The NOVX polypeptide, nucleic
 CC acid encoding it and antibody against it, are useful for treating or
 CC preventing (e.g. by gene therapy) a NOVX-associated disorder in humans,
 CC e.g. cardiomyopathy, atherosclerosis, a disorder related to cell signal
 CC processing and metabolic pathway modulation, diabetes or cancers. The
 CC NOVX polypeptide and nucleic acids are also useful for determining the
 CC presence of predisposition to the diseases. The NOVX nucleic acid and
 CC polypeptide are especially useful in therapeutic or prophylactic
 CC applications for disorders associated with aberrant NOVX expression or
 CC activity, e.g. cancers (e.g. adenocarcinoma, lymphoma, prostate cancer or
 CC urogenital cancer), immune response, graft-versus-host disease, acquired
 CC immunodeficiency syndrome (AIDS), asthma, Crohn's disease, hypertension,
 CC congenital heart defects, multiple sclerosis, inflammation or Albritch
 CC hereditary osteodysplasia and many other diseases listed in the
 CC specification. The DNA encoding the protein is useful in gene therapy
 CC for treating the conditions. This is also useful in detection assays,
 CC chromosome mapping, tissue typing, diagnostic or prognostic assays, or
 CC for developing a powerful assay system for functional analysis of
 CC various human disorders, as well as in diagnostic applications. The
 CC present sequence encodes a NOVX protein.
 XX
 XX Sequence 1183 BP; 251 A; 359 C; 333 G; 240 T; 0 other;
 SQ
 Query Match 100.0%; Score 249; DB 24; Length 1183;
 Best Local Similarity 100.0%; Pred. No. 66-61; Indels 0; Gaps 0;
 Matches 249; Conservative 0; Mismatches 0;
 QY 1 TGCGCTATGAGGCGCTGACAGGAGAAAGACAGAACTGTGTGTTACCTGGAAAC 60
 DB 677 TGCGCTATGAGGCGCTGACAGGAGAAAGACAGAACTGTGTGTTACCTGGAAAC 736
 QY 61 CCTGAGAGGGGCTTCTCATCCGAGAGACGACGAGAGAGGCTCTTACTCTGTGCA 120
 DB 737 CCTGAGAGGGGCTTCTCATCCGAGAGACGACGAGAGAGGCTCTTACTCTGTGCA 796
 QY 121 GTCCGCTCAGCGCGCTGATCTGGGACCGGATCAGACATCAAGATCAATGCTTT 180
 DB 797 GTCCGCTCAGCGCGCTGATCTGGGACCGGATCAGACATCAAGATCAATGCTTT 856
 QY 181 GACATGCTGCTGATCATCTCAGCGGCTTCACTTCCCTCACTCCAGGCTTGTTG 240
 DB 857 GACATGCTGCTGATCATCTCAGCGGCTTCACTTCCCTCACTCCAGGCTTGTTG 916

QY 241 GACCATTCAC 249
 DB 917 GACCATTCAC 925

RESULT 4

AACT7202
 ID AACT7202 standard; cDNA; 837 BP.

AACT7202;

08-FEB-2001 (first entry)

Human ORFX ORF2757 polynucleotide sequence SEQ ID NO:5513.

Human; open reading frame; ORFX; detection; cytosolic; hepatotropic;
 KW vulnery; antiproliferative; antiparkinsonian; neurotropic; neuroprotective;
 KW immunosuppressant; osteoplastic; antitumor; immunosuppressant; cardiac;
 KW immunostimulant; thrombolytic; coagulant; vasotrophic; antidiabetic;
 KW hypotensive; dermatological; immunosuppressive; antineoplastic;
 KW antiviral; antibacterial; antifungal; antineoplastic; antithyroid;
 KW antianemic; gene therapy; cancer; proliferative disorder; hypertension;
 KW neurodegenerative disorder; osteoarthritis; graft vs host disease;
 KW cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;
 KW cholesterol ester storage; systemic lupus erythematosus; infection;
 KW severe combined immunodeficiency; malaria; autoimmune disorder; asthma;
 KW allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;
 KW bone damage; cartilage damage; antineoplastic disease; coagulation;
 KW thrombosis; contraceptive; ss.

OS Homo sapiens.

XX MO200058473-A2.

XX 05-OCT-2000.

XX 31-MAR-2000; 2000MO-US08621.

XX 31-MAR-1999; 99US-0127607.

XX 02-APR-1999; 99US-0127636.

XX 05-APR-1999; 99US-0127728.

XX 30-MAR-2000; 2000US-0540763.

XX (CURA-) CURAGEN CORP.

XX Shinkens RA, Leach M;

XX WPI; 2000-602362/57.

XX P-PSDB; ABB42993.

XX Claim 5; Page 4692-4693; 5507pp; English.

AACT7446 to AACT7606 encode the proteins given in ABB40237 to ABB43397,
 CC which represent the human ORFX open reading frame 1 to 3161. The ORFX
 CC sequences have activities such as: cytosolic; hepatotropic; vulnery;
 CC antiproliferative; antiparkinsonian; neurotropic; neuroprotective;
 CC osteoplastic; anticonvulsant; antitumor; immunosuppressant;
 CC immunostimulant; cardiac; thrombolytic; coagulant; vasotrophic;
 CC antidiabetic; hypotensive; dermatological; immunosuppressive;
 CC antineoplastic; antibacterial; antiviral; antineoplastic; antithyroid;
 CC antianemic; gene therapy; cancer; proliferative disorder; hypertension;
 CC antineoplastic; antineoplastic; antineoplastic; antineoplastic;
 CC the presence of or predisposition to, or preventing or treating
 CC pathological conditions associated with an ORFX-associated disorder. The
 CC nucleic acids can be used to express ORFX proteins in gene therapy
 CC vectors. The proteins and nucleic acids may be used to treat cancers,
 CC proliferative disorders, neurodegenerative disorders, osteoarthritis,
 CC graft vs host disease, cardiovascular disease, diabetes mellitus,
 CC hypertension, hypothyroidism, cholesterol ester storage, systemic lupus
 CC erythematosus, severe combined immunodeficiency (SCID), AIDS, viral,

XX	31-MAR-2000; 2000US-0540217.	PR
PR	23-AUG-2000; 2000US-0649167.	PR
XX	(HXYE-) HXSEQ INC.	XX
PA	Dremanac RT, Liu C, Tang YF;	XX
P1	WPI; 2001-639362/73.	XX
DR	P-PSDB; ABG10561.	XX
XX	New isolated polymnucleotide and encoded polypeptides; useful in	PT
PT	diagnostics; forensics; gene mapping; identification of mutations	PT
PT	responsible for genetic disorders or other traits and to assess	PT
PT	biodiversity -	PT
PS	Claim 1; SEQ ID No 10552; 103bp; English.	PS
XX	The invention relates to isolated polymnucleotide (I) and	XX
CC	polypeptide (II) sequences. (I) is useful as hybridisation probes,	CC
CC	polymerase chain reaction (PCR) primers, oligomers, and for chromosome	CC
CC	and gene mapping, and in recombinant production of (II). The	CC
CC	polymnucleotides are also used in diagnostics as expressed sequence tags	CC
CC	for identifying expressed genes. (I) is useful in gene therapy techniques	CC
CC	to restore normal activity of (II) or to treat disease states involving	CC
CC	(II). (II) is useful for generating antibodies against it, detecting or	CC
CC	quantitating a polypeptide in tissue, as molecular weight markers and as	CC
CC	a food supplement. (II) and its binding partners are useful in medical	CC
CC	imaging of sites expressing (II). (I) and (II) are useful for treating	CC
CC	disorders involving aberrant protein expression or biological activity.	CC
CC	The polymnucleotide and polymnucleotide sequences have applications in	CC
CC	diagnostics, forensics, gene mapping, identification of mutations	CC
CC	responsible for genetic disorders or other traits to assess biodiversity	CC
CC	and to produce other types of data and products dependent on DNA and	CC
CC	amino acid sequences. AAS64197-AAS94564 represent novel human	CC
CC	diagnostic coding sequences of the invention.	CC
CC	Note: The sequence data for this patent did not appear in the printed	CC
CC	specification, but was obtained in electronic format directly from WIPO	CC
CC	at ftp.wipo.int/pub/published_pct/sequences.	CC
XX		XX
SQ	Sequence 603 BP; 124 A; 189 C; 164 G; 126 T; 0 other;	SQ
Query Match	59.0%; Score 147; DB 23; Length 603;	
Best Local Similarity	100.0%; Pred. No. 4e-32;	
Matches 147; Conservative	0; Mismatches 0; Indels 0; Gaps 0;	
QY	103 GGCCTTACTCTGTGTGTCAGTCCGCTCAGCGCCCTGCATCCTTGGAACGGGATCAGACAC 162	
DB	199 GGCCTTACTCTGTGTGTCAGTCCGCTCAGCGCCCTGCATCCTTGGAACGGGATCAGACAC 258	
QY	163 TACAGAGATCCATGCGCTTGACATGAGCTGGAGCTGCATCTCAGACCGGACCTTCATCTTCCCC 222	
DB	259 TACAGAGATCCATGCGCTTGACATGAGCTGGAGCTGCATCTCAGACCGGACCTTCATCTTCCCC 318	
QY	223 TCACTCCAGGCGCTTGATGAGCACTTAC 249	
DB	319 TCACTCCAGGCGCTTGATGAGCACTTAC 345	
RESULT 8		
AAS70181		
ID	AAS70181 standard; cDNA; 211 BP.	
XX	AAS70181;	
AC	13-FEB-2002 (first entry)	
XX		
DE	DNA encoding novel human diagnostic protein #5985.	
XX		
KM	Human; chromosome mapping; gene mapping; gene therapy; forensic;	
XX	food supplement; medical imaging; diagnostic; genetic disorder; ss.	
OS	Homo sapiens.	

XX WO200175067-A2.
 XX 11-OCT-2001.
 PD 30-MAR-2001; 2001WO-US08631.
 XX 31-MAR-2000; 2000US-0540217.
 PR 23-AUG-2000; 2000US-0649167.
 XX (HYSE-) HXSEQ INC.
 PA Drmanac RT, Liu C, Tang YT,
 PI WPI, 2001-639362/73.
 DR P-PEDB; ABG05994.
 XX
 PT New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensics, gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess
 PT biodiversity -
 PS Claim 1; SEQ ID No 5985; 103pp; English.
 XX
 CC The invention relates to isolated polynucleotide (I) and
 CC polypeptide (II) sequences. (I) is useful as hybridisation probe,
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
 CC and gene mapping, and in recombinant production of (II). The
 CC polynucleotides are also used in diagnostics as expressed sequence tags
 CC for identifying expressed genes. (I) is useful in gene therapy techniques
 CC to restore normal activity of (II) or to treat disease states involving
 CC (II). (II) is useful for generating antibodies against it, detecting or
 CC quantitating a polypeptide in tissue, as molecular weight markers and as
 CC a food supplement. (II) and its binding partners are useful in medical
 CC imaging of sites expressing (II). (I) and (II) are useful for treating
 CC disorders involving aberrant protein expression or biological activity.
 CC The polypeptide and polynucleotide sequences have applications in
 CC diagnostics, forensics, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. AAS64197-AAS94564 represent novel human
 CC diagnostic coding sequences of the invention.
 CC Note: The sequence data for this patent did not appear in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 211 BP; 50 A; 51 C; 72 G; 38 T; 0 other;
 Query Match 41.4%; Score 103; DB 23; Length 211;
 Best Local Similarity 100.0%; Pred. No. 9.2e-20;
 Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGGCTGTATGAGGCGCTGACGAGGAGAAACGAGAACTGCTGTGTACCTGGGAC 60
 Db 109 TGGCTGTATGAGGCGCTGACGAGGAGAAACGAGAACTGCTGTGTACCTGGGAC 168
 QY 61 CCTGAGAGGCGCTTCCTCATCCGAGAGCCAGACCAAGAGAG 103
 Db 169 CCTGAGAGGCGCTTCCTCATCCGAGAGCCAGACCAAGAGAG 211

RESULT 9
 ABRK83940
 ID ABRK83940 standard; cDNA; 1926 BP.
 AC ABRK83940;
 XX
 DT 14-AUG-2002 (first entry)
 XX
 DE Human cDNA differentially expressed in granulocytic cells #511.
 XX
 KW Human; 89; granulocytic cell; DNA chip; bacterial infection;
 KW viral infection; parasitic infection; protozoal infection;

KW fungal infection; sterile inflammatory disease; psoriasis;
 KW rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;
 KW cardiac reperfusion injury; renal reperfusion injury; ARDS;
 KW adult respiratory distress syndrome; inflammatory bowel disease;
 KW Crohn's disease; ulcerative colitis; periodontal disease;
 KW granulocyte activation; chronic inflammation; allergy.
 XX
 OS Homo sapiens.
 PN WO200228999-A2.
 XX
 PD 11-APR-2002.
 XX
 PF 03-OCT-2001; 2001WO-US08621.
 XX
 PR 03-OCT-2000; 2000US-237189P.
 XX
 PA (GENE-) GENE LOGIC INC.
 XX
 PI Beazer-Barclay Y, Weissman SM, Yamaga S, Vockley J;
 PT WPI; 2002-435328/46.
 DR
 XX
 PT Detecting granulocyte activation by detecting differential expression
 PT of genes associated with granulocyte activation, which serves as
 PT diagnostic markers that is useful for monitoring disease states and
 PT drug toxicity -
 PS Claim 1; SEQ ID No 511; 114pp; English.
 XX
 CC The invention relates to detecting (M1) granulocyte (GC) activation
 CC (GCA), by detecting the level of expression of gene(s) (Gs) identified by
 CC DNA chip analysis as given in the specification, and comparing
 CC the expression level to an expression level in an unactivated
 CC GC, where differential expression of Gs is indicative of GCA.
 CC Also included are modulating (M2) Gs by contacting GC with an agent
 CC that alters the expression of at least one gene in Gs; (2) screening (M3)
 CC for an agent capable of modulating GCA or an inflammation (especially
 CC chronic) in a tissue, an allergic response in a subject, exposure of a
 CC subject to a pathogen or sterile inflammatory disease using the
 CC gene expression profile; (3) detecting (M4) an inflammation (especially
 CC chronic) in a tissue, an allergic response in a subject, exposure of a
 CC subject to a pathogen or sterile inflammatory disease, by detecting the
 CC level of expression in a sample of the tissue of gene(s) from Gs, where
 CC the level of expression of the gene is indicative of inflammation;
 CC (4) treating (M5) an inflammation (especially chronic) or in a tissue,
 CC an allergic response in a subject, exposure of a subject to a pathogen
 CC or sterile inflammatory disease, by contacting a tissue having
 CC inflammation with an agent that modulates the expression of gene(s)
 CC from Gs in the tissue. M1 is useful for detecting GCA; M2 is useful for
 CC modulating Gs; M3 is useful for screening an agent capable of modulating
 CC GCA; preferably in an inflammation in a tissue; M4 is useful for
 CC detecting an inflammation (especially chronic) in a tissue, an allergic
 CC response in a subject, exposure of a subject to a pathogen or sterile
 CC inflammatory disease (e.g. psoriasis, rheumatoid arthritis,
 CC glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, renal
 CC reperfusion injury, ARDS, adult respiratory distress syndrome,
 CC inflammatory bowel disease, Crohn's disease, ulcerative colitis,
 CC periodontal disease, also bacterial infection, viral infection, and
 CC parasitic infection, protozoal infection, fungal infection, and M5 is
 CC useful for treating one of the above conditions. The present
 CC sequence represents a gene differentially expressed in granulocytes.
 CC Note: The sequence data for this patent did not form part
 CC of the printed specification, but was obtained in electronic
 CC format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 1926 BP; 497 A; 522 C; 520 G; 387 T; 0 other;
 Query Match 40.2%; Score 100.2; DB 24; Length 1926;
 Best Local Similarity 62.7%; Pred. No. 9.7e-19;
 Matches 156; Conservative 0; Mismatches 93; Indels 0; Gaps 0;

QY 1 TGGCTGTATGAGGGCTGTGAGGAGGAGGAAAGGAACTGCTGTGTTACTCTGGGAAAC 60
 DB 442 TGGTTTTCAGAGGATCATCCGGAAGAGCCGAGAGGCCMACTGTGCTCCGGGAC 501
 QY 61 CCTGAGAGGGGCTTCTCATCCGGAAGAGGAGGAGGAGGCTTCTTACTCTGTGA 120
 DB 502 ATGCTGGGCTCTTCATGATCCGGGATAGCAGACACTTAAAGAAAGTACTCTTTGTCC 561
 QY 121 GTCCGCTCAGCGCCGCTGATCTCGGAGGAGTACGACACTACAGATCACTGCTT 180
 DB 562 GTCCGAGACTACGACCTCCGAGGAGATGATCCCTGAAACATTACAGATCCGACCTG 621
 QY 181 GACAAATGCTGCTGTATCATCTCAGCGGCTTCACTTCCCTCACTCAGGCTGTG 240
 DB 622 GACAAAGGGGCTTCTACATATCCCGAAGCACTTTCAGCACTCTGCAAGACTGTG 681
 QY 241 GACCAATTAC 249
 DB 682 GACCACTAC 690

RESULT 10
 ABK83939
 ID ABK83939 standard; cDNA; 2015 BP.
 AC
 XX ABK83939;
 DT 14-AUG-2002 (first entry)
 XX
 DE Human cDNA differentially expressed in granulocytic cells #510.
 XX
 KW Human; ss; granulocytic cell; DNA chip; bacterial infection;
 KW viral infection; parasitic infection; protozoal infection;
 KW fungal infection; sterile inflammatory disease; psoriasis;
 KW rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;
 KW cardiac reperfusion injury; renal reperfusion injury; ARDS;
 KW adult respiratory distress syndrome; inflammatory bowel disease;
 KW Crohn's disease; ulcerative colitis; periodontal disease;
 KW granulocyte activation; chronic inflammation; allergy.
 XX
 OS Homo sapiens.
 XX
 PN MO200228999-A2.
 XX
 PD 11-APR-2002.
 XX
 PF 03-OCT-2001; 2001MO-US30821.
 XX
 PR 03-OCT-2000; 2000US-237189P.
 XX
 PA (GENE-) GENE LOGIC INC.
 PI Beazer-Barclay Y, Weissman SM, Yamaga S, Vockley J;
 DR WPI; 2002-435328/46.
 XX
 PT Detecting granulocyte activation by detecting differential expression
 PT of genes associated with granulocyte activation, which serves as
 PT diagnostic markers that is useful for monitoring disease states and
 PT drug toxicity -
 XX
 PS Claim 1; SEQ ID No 510; 114bp; English.
 XX
 CC The invention relates to detecting (M1) granulocyte (GC) activation
 CC (GCA), by detecting the level of expression of gene(s) (Gs) identified by
 CC DNA chip analysis as given in the specification, and comparing
 CC the expression level to an expression level in an unactivated
 CC GC, where differential expression of Gs is indicative of GCA.
 CC Also included are modulating (M2) GA by contacting GC with an agent
 CC that alters the expression of at least one gene in Gs; (2) screening (M3)
 CC for an agent capable of modulating GCA or an inflammation (especially
 CC chronic) in a tissue, an allergic response in a subject, exposure of a
 CC subject to a pathogen or sterile inflammatory disease using the

CC gene expression profile; (3) detecting (M4) an inflammation (especially
 CC chronic) in a tissue, an allergic response in a subject, exposure of a
 CC subject to a pathogen or sterile inflammatory disease, by detecting the
 CC level of expression in a sample of the tissue of gene(s) from Gs, where
 CC the level of expression of the gene is indicative of inflammation;
 CC (4) treating (M5) an inflammation (especially chronic) or in a tissue,
 CC an allergic response in a subject, exposure of a subject to a pathogen
 CC or sterile inflammatory disease, by contacting a tissue having
 CC inflammation with an agent that modulates the expression of gene(s)
 CC from Gs in the tissue. M1 is useful for detecting GCA; M2 is useful for
 CC modulating GA; M3 is useful for screening an agent capable of modulating
 CC GCA preferably in an inflammation (especially chronic) in a tissue, an allergic
 CC response in a subject, exposure of a subject to a pathogen or sterile
 CC inflammatory disease (e.g. psoriasis, rheumatoid arthritis,
 CC glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, renal
 CC reperfusion injury, ARDS, adult respiratory distress syndrome,
 CC inflammatory bowel disease, Crohn's disease, ulcerative colitis,
 CC periodontal disease; also bacterial infection, viral infection,
 CC parasitic infection, protozoal infection, fungal infection and M5 is
 CC useful for treating one of the above conditions. The present
 CC sequence represents a gene differentially expressed in granulocytes.
 CC Note: The sequence data for this patent did not form part
 CC of the printed specification, but was obtained in electronic
 CC format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 2015 BP; 512 A; 540 C; 580 G; 383 T; 0 other;
 XX
 Query Match 40.2%; Score 100.2; DB 24; Length 2015;
 Best Local Similarity 62.7%; Pred. No. 9,8e-19;
 Matches 156; Conservative 0; Mismatches 93; Indels 0; Gaps 0;
 QY 1 TGGCTGTATGAGGGCTGTGAGGAGGAGGAAAGTCTGTTTACTCTGGGAAAC 60
 DB 535 TGGTTTTCAGAGGATCATCCGGAAGAGCCGAGAGGCCMACTGTGCTCCGGGAC 594
 QY 61 CCTGAGAGGGGCTTCTCATCCGGAAGAGGAGGAGGAGGCTTCTTACTCTGTGA 120
 DB 595 ATGCTGGGCTCTTCATGATCCGGGATAGGAGACCACTTAAAGAACTCTTTGTCC 654
 QY 121 GTCCGCTCAGCGCCGCTGATCTCGGAGGAGATGACACTACAGATCCAGTCTT 180
 DB 655 GTCCGAGACTACGACCTCCGAGGAGATGATCCCTGAAACATTACAGATCCGACCTG 714
 QY 181 GACAAATGCTGCTGTATCATCTCAGCGGCTTCACTTCCCTCACTCAGGCTGTG 240
 DB 715 GACAAAGGGGCTTCTACATATCCCGAAGCACTTTCAGCACTCTGCAAGACTGTG 774
 QY 241 GACCAATTAC 249
 DB 775 GACCACTAC 783

RESULT 11
 ABL66673
 ID ABL66673 standard; DNA; 2015 BP.
 AC ABL66673;
 DT 15-MAY-2002 (first entry)
 XX
 DE Lung cancer related gene sequence SEQ ID NO:5010.
 XX
 KW Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
 KW stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
 KW cytotoxic; gene therapy; antineoplastic; Wilms' tumour; adenocarcinoma;
 KW gene; ds.
 XX
 OS Homo sapiens.
 XX
 PN MO200194629-A2.
 XX

PD 13-DEC-2001.
 XX 30-MAY-2001, 2001WO-US10838.
 XX
 PR 05-JUN-2000; 2000US-209473P.
 PR 05-JUN-2000; 2000US-209531P.
 PR 18-SEP-2000; 2000US-233133P.
 PR 18-SEP-2000; 2000US-233617P.
 PR 20-SEP-2000; 2000US-234009P.
 PR 20-SEP-2000; 2000US-234034P.
 PR 20-SEP-2000; 2000US-234052P.
 PR 22-SEP-2000; 2000US-234509P.
 PR 22-SEP-2000; 2000US-234567P.
 PR 25-SEP-2000; 2000US-234923P.
 PR 25-SEP-2000; 2000US-234924P.
 PR 25-SEP-2000; 2000US-235077P.
 PR 25-SEP-2000; 2000US-235082P.
 PR 25-SEP-2000; 2000US-235134P.
 PR 25-SEP-2000; 2000US-235280P.
 PR 26-SEP-2000; 2000US-235637P.
 PR 26-SEP-2000; 2000US-235638P.
 PR 27-SEP-2000; 2000US-235711P.
 PR 27-SEP-2000; 2000US-235720P.
 PR 27-SEP-2000; 2000US-235840P.
 PR 27-SEP-2000; 2000US-235863P.
 PR 28-SEP-2000; 2000US-236028P.
 PR 28-SEP-2000; 2000US-236032P.
 PR 28-SEP-2000; 2000US-236033P.
 PR 28-SEP-2000; 2000US-236034P.
 PR 28-SEP-2000; 2000US-236109P.
 PR 28-SEP-2000; 2000US-236111P.
 PR 29-SEP-2000; 2000US-236842P.
 PR 29-SEP-2000; 2000US-236891P.
 PR 02-OCT-2000; 2000US-237172P.
 PR 02-OCT-2000; 2000US-237173P.
 PR 02-OCT-2000; 2000US-237278P.
 PR 02-OCT-2000; 2000US-237294P.
 PR 02-OCT-2000; 2000US-237294P.
 PR 02-OCT-2000; 2000US-237295P.
 PR 02-OCT-2000; 2000US-237316P.
 PR 03-OCT-2000; 2000US-237425P.
 PR 03-OCT-2000; 2000US-237598P.
 PR 03-OCT-2000; 2000US-237604P.
 PR 03-OCT-2000; 2000US-237606P.
 PR 03-OCT-2000; 2000US-237608P.
 PR 01-NOV-2000; 2000US-244867P.
 PR 01-NOV-2000; 2000US-245084P.
 XX
 PA (AVAL-) AVALON PHARM.
 XX
 PI Young PE, Augustus M, Carter KC, Edner R, Endress G, Horigan S;
 PI Soppe DR, Weaver Z;
 XX
 DR WPI; 2002-188264/24.
 XX
 XX
 PT Screening for anti-neoplastic agent involves exposing cells to a
 PT chemical agent to be tested for anti-neoplastic activity, and
 PT determining a change in expression of a gene of a signature gene set -
 XX
 PS Claim 1; SEQ ID 5010; 44pp; English.
 XX
 CC The present invention describes a method (M1) for screening for an
 CC anti-neoplastic agent. The method involves exposing cells to a chemical
 CC agent to be tested for anti-neoplastic activity, determining a change in
 CC expression of at least one gene (I) of a signature gene set, where (II)
 CC comprises a sequence (S) selected from 847 sequences (given in AB16164
 CC to AB170110), or is at least 95% identical to (S), where a change in
 CC expression is indicative of anti-neoplastic activity. (II) has cytostatic
 CC activity and can be used in gene therapy. M1 can be used for screening
 CC an anti-neoplastic agent, and can be used for producing a product which
 CC is the data collected with respect to the anti-neoplastic agent as a
 CC result of M1, and the data is sufficient to convey the chemical
 CC structure and/or properties of the agent. M1 can be used in the
 CC treatment of cancer such as colon, breast, stomach, lung, thyroid.

CC oesophageal, ovarian, kidney, prostate or pancreatic cancer,
 CC adenocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer,
 CC infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine
 CC carcinoma, papillary carcinoma and Wilms' tumour.
 XX
 SQ Sequence 2015 BP; 512 A; 540 C; 580 G; 383 T; 0 other;
 Query Match 40.2%; Score 100.2; DB 24; Length 2015;
 Best Local Similarity 62.7%; Pred. No. 9.8e-19;
 Matches 156; Conservative 0; Mismatches 93; Indels 0; Gaps 0;
 QY 1 TGCGCTATGAGGCGCTGAGCAGGAGAAAGCAGAGAACTGCTTTGACCTGGAGAC 60
 DB 535 TGGTTTTCAGAGGCGATCAGCCGGAAGAGACGAGAGCGCAACTGCTGCTCCCGGAGAC 594
 QY 61 CCGAGAGGCGGCTTCATCGGAGAGCAGAGCAGAGAGGCGCTTATCTCGTCA 120
 DB 595 ATGCTGGGCTCTTATGATCGGAGATGCGAGACACTTAAAGAGCTACTCTTTGTCC 654
 QY 121 GTCCGCTCAGCCGCTGATCTGGGACCGATCAGACACTAGAGATCACTGCTT 180
 DB 655 GTGCGAGACTAGACACCTCGCAGGAGATACCGTGAACATTACAGATCCGAGCCCTG 714
 QY 181 GAAAGGCTGCTGATCATCTACCGGCGCTGACCTCCCTCACTCGAGCCCTGGTG 240
 DB 715 GACAGCGGCGCTTCTCATATCCCGAAGCAGCTTCAGCACTTCGAGAGCTGGTG 774
 QY 241 GACCAATTAC 249
 DB 775 GACCACTAC 783
 RESULT 12
 ID AAT63421 standard; DNA; 675 BP.
 AC AAT63421;
 XX
 DT 20-JUN-1997 (first entry)
 DE
 XX FKBP-LCK:SH2 fusion protein DNA.
 DE
 XX FKBP-LCK:SH2; FKS06 binding protein; SH2 domain; Src homology 2;
 KW fusion protein; high throughput assay; ligand; signal transduction;
 KW microscintillation; ss.
 XX
 OS Homo sapiens.
 XX
 PN M09710253-A1.
 XX
 PD 20-MAR-1997.
 XX
 PF 11-SEP-1996; 96WO-US14567.
 XX
 PR 12-MAR-1996; 96GB-0005210.
 PR 15-SEP-1995; 95US-0003819.
 PA (MERI) MERCK & CO INC.
 XX
 PI Marcy A, Salowe SP, Winiowski D;
 DR WPI; 1997-202171/18.
 DR P-PSDB; AAW14788.
 XX
 PT Screening compounds for binding to fusion proteins with defined
 PT ligands - allows high capacity assays and identification of
 PT (ant)agonists or inhibitors for drug development
 XX
 PS Claim 29; Page 17-18; 36pp; English.
 CC Isolated DNA sequences (AAT63419-21) respectively code for fusion
 CC proteins FKBP-ZAP:SH2, FKBP-SYK:SH2 and FKBP-LCK:SH2 (AAW14786-88)
 CC comprising FKS06 binding protein (FKBP) linked via a peptide linker

XX 27-MAY-1999; 99WO-GB01680.
 XX 27-MAY-1998; 98NO-0002419.
 PR 30-DEC-1998; 98US-0114240.
 XX (LAUR-) LAURAS AS.
 PA (JONE/) JONES E L.
 XX Hanesson V, Levy FO, Musteijn T, Skallhegg BS, Sundvold V, Tasken K,
 PI Vang T, Altman A, Munshi A;
 DR WPI; 2000-086801/07.
 DR P-PSDB; AAY49420.
 XX
 PT Altering the activity of protein kinase signaling pathways, used for
 PT treating immunosuppressive disorders, e.g. AIDS, proliferative
 PT disorders, e.g. cancers or autoimmune diseases
 XX
 PS Claim 22; Page 94-95; 111pp; English.
 CC The invention provides a novel method of altering the activity of the
 CC protein kinase A (PKA) signaling pathway in a cell that comprises
 CC altering the extent of phosphorylation of one or more PKA substrates, or
 CC kinase substrates downstream in the PKA signaling pathway. Pharmaceutical
 CC compositions containing a nucleic acid molecule that encodes a PKA
 CC substrate, or fragment, precursor or functionally equivalent variant,
 CC where the sequence is modified to alter its susceptibility to
 CC phosphorylation by PKA can be used for treating a disorder exhibiting
 CC abnormal PKA signaling activity, immunosuppressive disorders or
 CC proliferative diseases. They can be used for treating e.g. HIV
 CC infection, AIDS, common variable immunodeficiency or cancers. Conditions
 CC in which upregulation of the PKA pathway is required, such as autoimmune
 CC disease, e.g. systemic lupus erythematosus, may also be treated. The
 CC present sequence represents a DNA sequence encoding a PKA substrate,
 CC wherein the substrate is in the Src-family, preferably Lck, Fyn, Src,
 CC Yes, Fgr, Lyn, Hck Blk, Yrk, c-Kit, Fyk, Src-1 or Src-2.
 CC
 SQ Sequence 2032 BP; 450 A; 576 C; 584 G; 422 T; 0 other;
 Query Match 39.0%; Score 97; DB 21; Length 2032;
 Best Local Similarity 61.8%; Pred. No. 7,9e-18;
 Matches 154; Conservative 0; Mismatches 95; Indels 0; Gaps 0;
 QY 1 TGGCTGTATGAGGCGCTTGAGCAGGAGAAAGCAGAGAACTGCTGTATTACTCGGAGAC 60
 DB 430 TGGTCTTCAAGAACTGAGCGCGAGAGCGGAGCGGAGCTCTGGCGCCGGAGAC 489
 QY 61 CTTGAGAGGCGCTTCTCTATCCGGAGAGGAGAGAGAGGCTTTACTCTGTCGA 120
 DB 490 ACTCAGGCTCTTCTCTATCCGGAGAGGAGAGAGAGAGAGGCTTTTACTCTGTCG 549
 QY 121 GTCCGCTTCAAGCGCGCTTGATCTCTGAGCCGATGACACTACAGATTCAGTCCCTT 180
 DB 550 GTCCGGGACTTTCAGCAAAACAGGAGAGAGGTGTAAACATTCAGATTCGTAATCTG 609
 QY 181 GACATGCTGCTGCTGATCTCAACCGGCTCACTTCCCTCACTCCAGCCCTGTG 240
 DB 610 GACATGCTGCTTCTTCACTCTCCCTGATATCACTTTCCGGCTGATGAATGCTG 669
 QY 241 GACCATTTAC 249
 DB 670 GCGCATTTAC 678
 RESULT 15
 AAQ13983
 ID AAQ13983 standard; DNA; 1254 BP.
 XX AAQ13983;
 AC
 XX
 DT 13-DEC-1991 (first entry)
 XX

DE Lck gene fused with part of beta-galactosidase gene.
 XX Multi-cloning site; ss.
 KW Synthetic.
 XX
 OS Key
 XX misc_RNA
 FH Location/Qualifiers
 FT 1..78
 FT /tag= a
 FT /note= "beta-galactosidase gene fused with the Lck gene."
 FT 79..1254
 FT /tag= b
 FT /note= "Lck gene"
 XX
 PN JP03201994-A.
 XX
 PD 03-SEP-1991.
 XX
 PF 28-DEC-1989; 89JP-0338268.
 XX
 PR 28-DEC-1989; 89JP-0338268.
 XX
 PA (TOKU) TOKUYAMA SODA KK.
 XX
 DR WPI; 1991-300980/41.
 DR P-PSDB; AAR14201.
 XX
 PT Fused polypeptide - has amino acid sequence of beta-galactosidase
 PT with a Lck gene conjugated to the N-terminal via DNA having
 PT multi-cloning site
 XX
 PS Disclosure; Fig 4,2; 15pp; Japanese.
 CC
 XX The sequence consists of the first 78 bp encoding the N-terminal
 CC amino acids of the beta-galactosidase gene fused with the Lck gene.
 CC It is prepd. by a claimed process in which a DNA contg. the Lck
 CC gene is inserted into an E.coli expression vector. The vector has
 CC DNA contg. part or all of the beta-galactosidase gene at the
 CC appropriate site of the multi-cloning site. It is useful for
 CC producing an antibody specifically immunoreactive with only a Lck
 CC gene-derived polypeptide in T cells. The antibody may recognise
 CC Lck gene-derived polypeptides in human cells.
 CC
 SQ Sequence 1254 BP; 291 A; 361 C; 365 G; 237 T; 0 other;
 Query Match 36.5%; Score 90.8; DB 12; Length 1254;
 Best Local Similarity 61.3%; Pred. No. 4e-16;
 Matches 146; Conservative 0; Mismatches 92; Indels 0; Gaps 0;
 QY 1 TGGCTGTATGAGGCGCTTGAGCAGGAGAAAGCAGAGAACTGCTGTATTACTCGGAGAC 60
 DB 100 TGGTCTTCAAGAACTGAGCGCGAGAGCGGAGCGGAGCTCTGGCGCCGGAGAC 159
 QY 61 CTTGAGAGGCGCTTCTCTATCCGGAGAGGAGAGAGAGGCTTTACTCTGTCGA 120
 DB 160 ACTCAGGCTCTTCTCTATCCGGAGAGGAGAGAGAGAGAGGCTTTTACTCTGTCG 219
 QY 121 GTCCGCTTCAAGCGCGCTTGATCTCTGAGCCGATGACACTACAGATTCAGTCCCTT 180
 DB 220 GTCCGGGACTTTCAGCAAAACAGGAGAGAGGTGTAAACATTCAGATTCGTAATCTG 279
 QY 181 GACATGCTGCTGCTGATCTCAACCGGCTCACTTCCCTCACTCCAGCCCTGTG 238
 DB 280 GACATGCTGCTTCTTCACTCTCCCTGATATCACTTTCCGGCTGATGAATGCTG 337
 Search completed: March 30, 2003, 00:48:31
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